

United States Patent and Trademark Office

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,830	01/29/2004	Atsushi Fukuda	248225US8	2363
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			LE, LANA N	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			07/03/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)			
	10/765,830	FUKUDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lana N. Le	2618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MON cause the application to become AB.	CATION. sply be timely filed If HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>07 December</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matte				
Disposition of Claims					
4) ☐ Claim(s) 3, 5-10 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 3,5-7 and 10 is/are allowed. 6) ☐ Claim(s) 8 and 9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to be drawing(s) be held in abeyan ion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
		-			
Attachment(s)	,, <u> </u>	(DTO 442)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413) //Mail Date formal Patent Application			

Application/Control Number: 10/765,830

Art Unit: 2618

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito (US 4,989,262).

Regarding claim 8, Saito discloses the radio communication terminal (fig. 1) comprising:

a receiver (2) connected to a receiving antenna (1), and interference canceller (10-1) for canceling a radiated noise component of electronic equipment from a received signal output from said receiver (col 2, lines 51-68); wherein said interference canceller (10-1) includes: a radiated noise predictor (6-1, 7-1, 8-1, 9-1) for generating a pseudo interference signal based on the radiated noise produced by said electronic equipment; and an adder (11) for adding together said received signal (from main IF converter 2) and said pseudo interference signal (from 6-1) to cancel said radiated noise component in said received signal (col 3, lines 14-19), which further comprises a plurality of receivers (2, receivers to receive signal from transmitter station; col 3, lines 20-22) each connected to one of a plurality of antennas (1, 3-1,...,3-n), a diversity receiver (12) and wherein: said interference canceller (10-1) includes a plurality of

Application/Control Number: 10/765,830

Art Unit: 2618

adders (11-1,11-2,...,11-n) each corresponding to one of said plurality of receivers; said radiated noise predictor includes a plurality of amplitude/phase adjustors (6-1) for adjusting amplitudes and phases of radiated noises from electronic equipment (30-1) to generate pseudo interference signals in correspondence with said plurality of receivers, and a control part (8-1, 9-1) for controlling the amplitude and phase adjustments by said plurality of amplitude/phase adjustors based on the outputs from said plurality of adders (feedback from outputs of adders 11-1,..... 11-n), the outputs from said plurality of adders being diversity-received by said diversity receiver (12).

Regarding claim 9, Saito discloses the radio communication terminal of claim 3 or 8, wherein said interference canceller (10-1; fig. 1) includes a band converting part (5-1) which converts said radiated noise from electronic equipment (10-1) to the same band as that of the output received signal of said receiver (2) and provides the converted output to the radiated noise predictor (6-1, 7-1, 8-1, 9-1).

Allowable Subject Matter

3. Claims 3 and 5-7, and 10 were allowed for the same reason as in the previous office action filed 10/18/06.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:30-18:30.

Page 4

Application/Control Number: 10/765,830

Art Unit: 2618

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LNL /Inl/

Lana M. Le
Primary Examiner
Technology Center 2600

Lana X